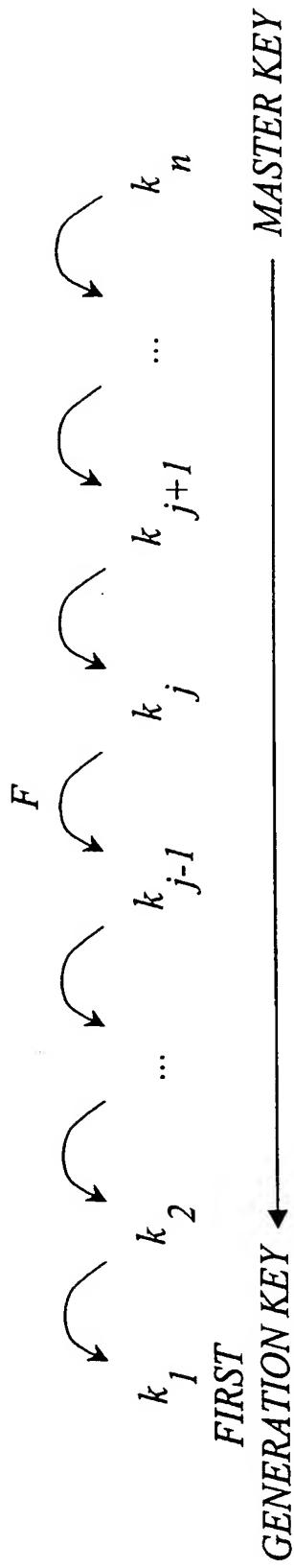


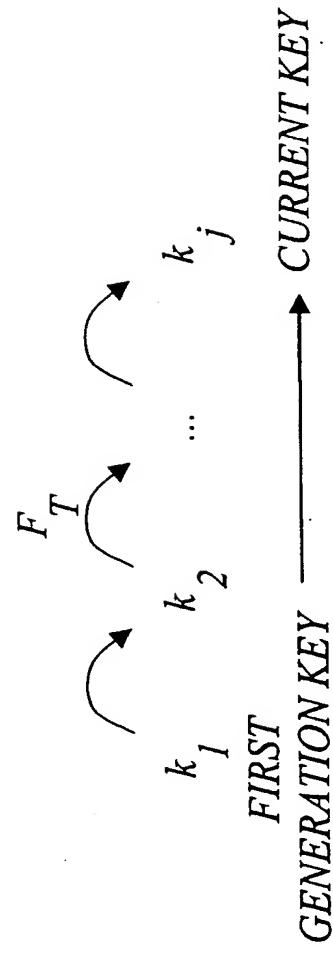
Fig. 1

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ALT. 1 (BACKWARD): STARTING FROM MASTER KEY, ITERATIVELY APPLYING KEY DERIVATION FUNCTION F ($n-1$) TIMES
“PRODUCING SIDE”

Fig. 2A



ALT. 2 (FORWARD): STARTING FROM FIRST GENERATION KEY,
SUCCESSIVELY APPLYING TRAP-DOOR FUNCTION F_T
“PRODUCING SIDE”

Fig. 2B

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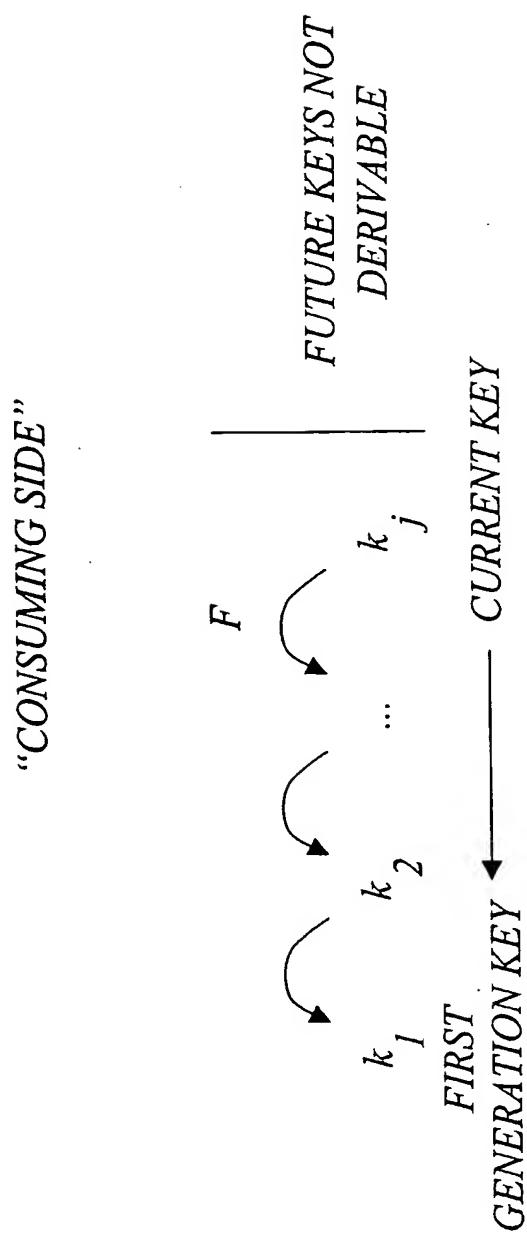


Fig. 3

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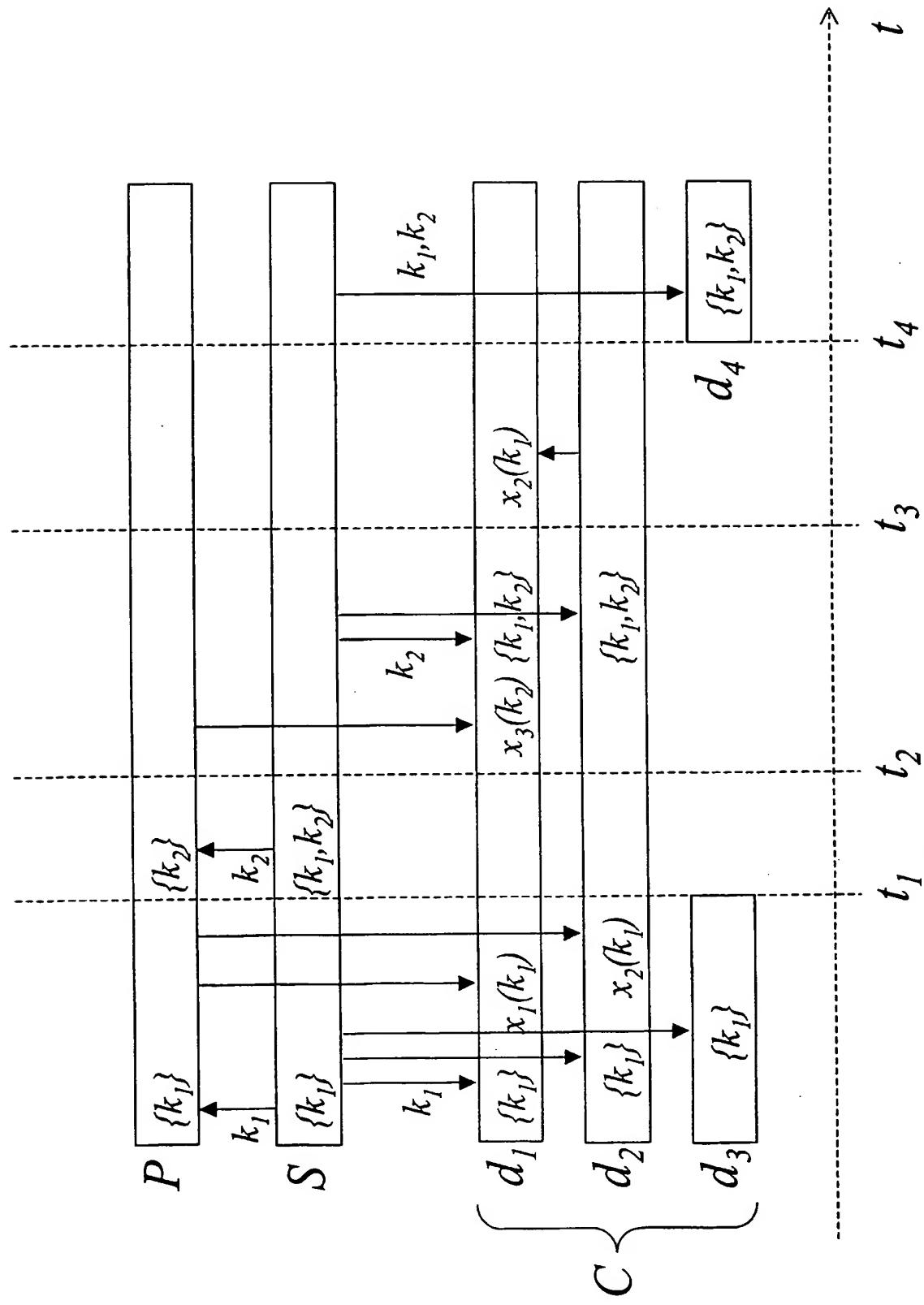


Fig. 4

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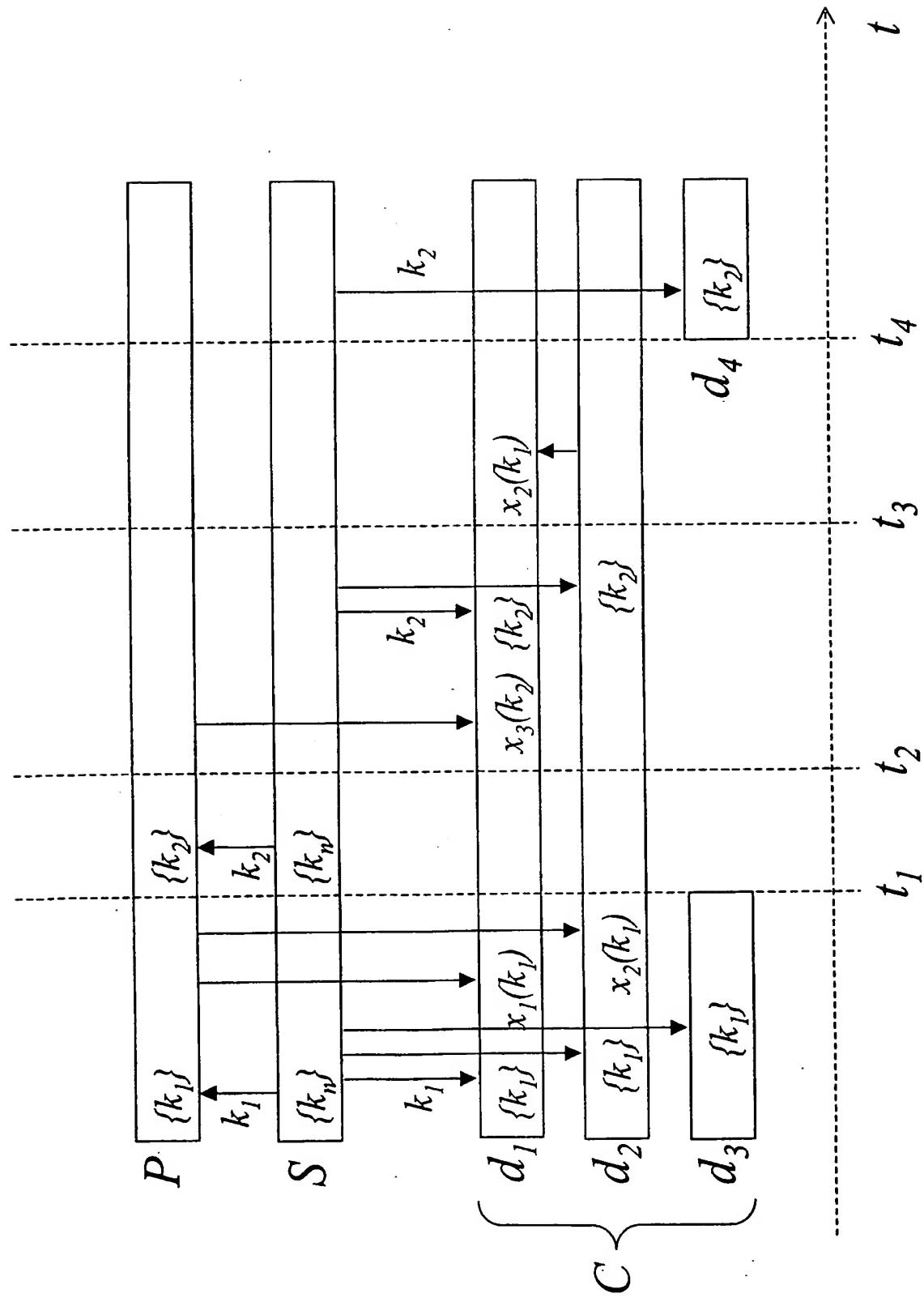


Fig. 5